PATENT ABSTRACTS OF JAPAN

(11)Publication number:

02-229712

(43)Date of publication of application: 12.09.1990

(51)Int.Cl.

C01F 5/22

(21)Application number: 02-015017

(71)Applicant: KYOWA CHEM IND GO LTD

(22)Date of filing:

26.01.1990 (72)Inv

(72)Inventor: MIYATA SHIGEO

HIROSE TORU OKADA AKIRA

(54) PRODUCTION OF MAGNESIUM HYDROXIDE

(57)Abstract:

PURPOSE: To improve the crystal growth property by allowing quick lime to react with an aq. soln. contg. ions of Cl, Br, NO3, etc., allowing the obtained slaked lime to react with MgCl2 or Mg(NO3)2 in a specified equivalent ratio and further hydrothermally treating the reaction product.

CONSTITUTION: Quick lime is allowed to react with an aq. soln. of NaCl, KBr, KNO3, etc., contg. about 0.1–5mol/l of ≥1 kind among Cl, Br and NO3 ions at about 10–65° C, and a slurry at pH 11–11.8 contg. the slaked lime shown by formula I is obtained (A− is Cl, Br and NO3 ions, etc., and 0⟨x⟨0.1⟩. About 0.5–0.95 equivalents of the slurry is allowed to react with one equivalent of MgCl2 or Mg(NO3)2 in an aq. medium to form a basic MgCl2 or basic Mg(NO3)2 shown by formula II (A is Cl and NO3, 0⟨x⟨0.2, and m is 0–6⟩, the product is hydrothermally treated at about 150–250° C, and the Mg(OH)2 having about 1–10m2/g specific surface, about 0.5–5μm crystal grain diameter and 0.5–5μm average

Ca(OH):-:A-

M g(O H) 2-- A . · m H 4 O

secondary grain diameter and almost without being aggregated is obtained.